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Contract No. DAAH01-98-D-R001  
Delivery Order No. 15

**MRDEC Webpage Operation and Maintenance Services for the  
Purpose of Data Distribution of Missile Technology and Analyses**

(5-20255 & 5-20256)

Final Technical Report for Period  
23 July 1998 through 22 July 1999

August 1999

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## PREFACE


This technical report was prepared by the staff of the Research Institute, The University of Alabama in Huntsville. The purpose of this report is to provide documentation of the work performed and results obtained under Delivery Order 15 of AMCOM Contract No. DAAH01-98-D-R001. Mr. James R. Clark was the principal investigator. Ms. Jessica Jackson, Technology Integration Office, Missile Research, Development and Engineering Center, provided technical guidance.

The views, opinions, and/or findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy, or decision unless so designated by other official documentation.

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Prepared for: Commander  
U.S. Army Missile Command  
Redstone Arsenal, AL 35898

I have reviewed this report, dated August 1999 and the report contains no classified information.

  
Principal Investigator

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## **1.0 Introduction**

The Technology Integration Office (TINTO), Missile Research, Development and Engineering Center (MRDEC), AMCOM required a means to rapidly disseminate information critical to aviation and missile system development to the Redstone Community. In order to meet this need, it was determined that the Internet would provide an infrastructure whereby non-proprietary and non-secure information could be transmitted.

## **2.0 Objective**

To meet the Internet development needs of TINTO, the University of Alabama in Huntsville (UAH) Systems Management and Production Lab was contracted to develop and maintain the TINTO webpage. The objective of this task was to provide state-of-the-art capabilities to TINTO, and to plan, coordinate and test enhancements to the website.

## **3.0 Statement of Work**

The statement of work, as outlined in delivery order 15, was as follows:

- 3.1 UAH shall be responsible for assisting with the management of the Missile Research, Development, and Engineering Center (MRDEC) Web Site. This website is used to distribute information technology for missile systems applications within the Center and to external customers. UAH's duties shall include responsibility for the following:
  - a. Performance of internet hardware, system, application software and communication lines. This shall include training any personnel on the proper use of added software/hardware.
  - b. Management of the security and software tools of the Web site, including analysis of appropriate data entries and the implementation of security countermeasures, when necessary. Countermeasures may include increasing levels of monitoring of network connections, adjusting security controls such as access permissions, password files, and access control lists. Refers security problems to MRDEC webmaster.
  - c. Provision of support to include Technology Integration Office (TINTO) with Web site and server coordination, planning, and testing. Also establishes and manages test server to test new Webpages and modifications to those pages.
  - d. Operation and enhancement of the MRDEC Home pages (to include the MRDEC Intranet), which is the capstone home pages for all home pages in MRDEC.
  - e. Creates Live Web Forms/databases for special projects that require automated collection and reporting of data from MRDEC personnel through the MRDEC Web Page or the MRDEC intranet.

- f. Research, development, implementation, test and review of state-of-the-art software and equipment for applicability to the MRDEC Web site for maximum exchange opportunity.

#### **4.0 Conclusion and Recommendations**

During the time frame allocated by the delivery order, members of the UAH Systems Management and Production Lab, with the cooperation of representatives from AMCOM TINTO and MRDEC, performed an analysis of information and Internet technologies to support TINTO efforts. This analysis led to the development and maintenance of the TINTO website. All efforts for the website were documented and delivered to TINTO under separate cover.

The investigation of information and Internet technologies included the analysis of current TINTO information sharing requirements. It is recommended that these requirements be revisited periodically to determine the required Internet infrastructure. As the TINTO requires additional capacity and as Internet technologies become more advanced, the website should be enhanced to exploit newly developed technologies.